

NOCTI

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Instructor Prep Pack

Pilot Testing 2025
Equipment, Materials, and
Supplies

BIOTECHNOLOGY - PILOT (4275)

NOTE: Participants will be required to demonstrate complete glove technique at the beginning and end of the job.

Designate area for used materials for job prior to testing.

Ensure student's workstation is as private as possible.

JOB 1: MAKING A SERIAL DILUTION (25 minutes)

- Gloves, eye protection, lab coat or scrubs
- 5x 15 ml conical tubes per student:
 - a. 1x 15mL conical tube containing 10ml of a colored stock solution
 - b. 4x 15mL conical tubes for student dilution
- 250 ml of dH₂O
- Food coloring
- Choose:
 - a. P1000 and P1000 tips and/or
 - b. (5x) 5 mL and 10 mL serological pipettes and pipette pump
- Lab marker at each workstation
- Calculator
- Test tube rack
- Scratch paper and writing instrument
- Waste container

COMPUTER NETWORKING FUNDAMENTALS - PILOT (4614)

NOTE: All equipment below for this performance assessment must be tested and in proper working condition (unless otherwise stated) prior to the testing date.

JOB 1: SET UP A SIMPLE LAN WITH TWO WORKSTATIONS AND HARDWARE INSTALLATION (1 hour)

Each participant will require TWO workstations for this job.

- **For each job, start with a fresh install of a Windows Operating System.**
- **Workstation #1 must have a NIC installed and the NIC driver properly configured.**
- **Workstation #2 must have a NIC installed that is not functioning.**
- **A copy of the NIC driver needs to be available in case the participant needs to reinstall the driver.**

For each participant:

- Two Windows-based PC workstations, labeled Workstation #1 and Workstation #2, with field-replaceable unit (FRU) NICs
- The NIC in Workstation #1 is correctly configured
- The NIC in Workstation #2 needs to be non-functioning
- Copies of the proper NIC drivers
- Two (correctly terminated) Cat-5 or newer straight-through cables
- An Ethernet hub or switch (at minimum: a 4- or 8-port) with appropriate AC adaptor
- NIC Adapter (PCI or PCI-E)
- Workstations booted, ready, and logged on with administrative access
- Writing utensils
- Paper

JOB 2: WIRELESS CONFIGURATION (45 minutes)

NOTE: The router must be on its own LAN and not associated with the organization's network.

- Multipurpose device (e.g., wireless router) with the ability to offer DHCP services and wireless connections with a minimum of WEP
- Documentation for device with default password and IP address
- PC to connect for configuration
- Patch cable (to connect the PC and multipurpose device)
- Paper